



COVANCE
THE DEVELOPMENT SERVICES COMPANY

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Date: 27 March 2001

From: Mark Bentley

To: Dr Robin Kinser Philip Morris USA Fax Number: 00 1 804 274 3982
Dr Tony Tricker Philip Morris CH 00 41 32 888 5776

Copy to: Jill Schultz (Covance Madison) 00 1 608 245 7001
Keith Phillips

Re: Synthesis of trans-3'-hydroxycotinine-O-(β)-glucuronide

Pages (including cover): 10

Dear Robin and Tony

Please find attached a copy of the fax received from SK Energy and Chemical Inc.

I have recently spoken with Dr Kwon, who confirmed that SKE had been unsuccessful so far with the synthesis of this material, and apologised for not being able to deliver as promised. As can be seen from the content of the fax, they appear to have put a lot of work into this project so far.

Dr Kwon indicated that the development of a new synthetic route to overcome the destabilising effect of the electron withdrawing 5-carboxyl group was possible, and he had a number of ideas of how this might be achieved, one of which was using a sulphur analogue as a starting material. Whatever approach taken, new starting materials would be required.

SKE would like to progress the development of a new synthetic route under the terms of a research contract, the costs for which are undetermined at this stage.

As mentioned to Roger by Keith in a recent conversation, we need to consider where we go next with this.

Kind regards



Mark Bentley
Senior Study Director
Analytical Services

Also attached is a copy of the exemption certificate received from the UK Health and Safety Executive

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